AMENDMENTS TO THE SPECIFICATION

IN THE SPECIFICATION

Amend the paragraph on page 4, line 4 as follows:

Figures 2A, 2B, 2C, 2D and **2E. 2A,** Comparison of the protein sequences of human *DYXC1* (SEQ ID NO: 3) and mouse *mdyxc1* (SEQ ID NO: 5). The SNPs found in this invention are marked with a circumflex accent, and the three TPR domains are marked with asteriks. **2B,** RT-PCR from human multiple tissue cDNA panels I and II (Clontech). Lanes: 1)λ/ϕX174 size marker, 2) heart, 3) brain, 4) placenta, 5) lung, 6) liver, 7) skeletal muscle, 8) kidney, 9) pancreas, 10) spleen, 11) thymus, 12) prostate, 13) testis, 14) ovary, 15) small intestine, 16) colon, and 17) leukocyte. **2C** and **2D,** *DYXC1* Northern blot from Multiple Tissue Northern (MTN) Blot panels I and II (Clontech). Lanes in fig. **2C**: 1) heart, 2) brain, 3) placenta, 4) lung, 5) liver, 6) skeletal muscle, 7) kidney, 8) pancreas; Lanes in fig. **2D**: 9) spleen, 10) thymus, 11) prostate, 12) testis, 13) ovary, 14) small intestine, 15) colon, and 16) leukocyte. **2E,** Cellular localization of *DYXC1* protein. Cos-1 cells transfected with *DYXC1*-V5 fusion construct were stained with monoclonal mouse α-V5 antibody and FITC-conjugated α-mouse-IgG (grey). DAPI stained nuclei are shown in light grey.

Amend the paragraph beginning on page 17, line 22 and ending on page 18, line 5 as follows:

To search for additional SNPs, we sequenced the whole coding region of *DYXC1* from an individual carrying the T allele in the family presented in Figure 3. We found a G to T transversion at position 1249 of the *DYXC1* mRNA, which results in a substitution of a glutamic acid for an ochre stop codon at amino acid position 417. The appearance of a stop codon leads to the deletion of the C-terminal tetrapeptide Glu-Leu-Lys-Ser (residues 417-420 of SEQ ID NO: 3). In the family of Figure 3, 1249G→T was transmitted in the same chromosome as -164C→T, thus segregating with dyslexia.

Amend the paragraph on page 23, line 1 as follows:

Table 3. Human-specific intronic primers for DYXC1 (SEQ ID NOS: 22-42).

IN THE SEQUENCE LISTING

Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.